



## The Abstract Quarterly : October 2021

Thank you all for a productive and engaging 2021. In the past year, STAC has convened for three quarterly meetings and ten workshops, including three roundtables on the impacts of COVID-19 on Bay management. The Comprehensive Evaluation of System Response is wrapping up and in August, the Writer's Team gathered at ThorpeWood in Thurmont, Maryland to develop the remaining sections. Two more STAC workshops will meet before the year's end, and our upcoming December Quarterly will be held on December 7th and 8th.

With all that STAC and STAC Members do, this edition will highlight current and past STAC members' research and achievements, as well as opportunities for engagement within STAC. STAC members dedicate their time voluntarily to ensure the Bay management effort is supported by the latest science and we truly appreciate all they do!

[Visit the STAC Website](#)

## STAC is Seeking Nominations for At-large Members

STAC is seeking self-nominations for candidates to fill at-large membership positions by November 8th, 2021. **STAC provides scientific and technical advice and guidance to the Chesapeake Bay Program (CBP) Partnership on measures to restore and protect the Chesapeake Bay and its watershed.** Members work to enhance scientific communication and outreach throughout the Chesapeake Bay watershed and beyond. STAC provides independent scientific and technical advice in various ways, such as (1) technical reports and white papers, (2) conducting reviews of CBP products, (3) technical workshops, and (4) interaction between STAC members and the CBP. STAC serves as a liaison between the scientific community and the CBP. Through professional and academic contacts and organizational networks of its members, STAC facilitates cooperation among and between the various research institutions and management agencies represented in the Chesapeake Bay watershed.

**Please forward this announcement to your networks!**

[Online Nomination Form](#)

# Workshops and Upcoming Meetings

## Save the Date: STAC Workshops

[Improving Modeling and Mitigation Strategies for Poultry Ammonia Emissions Across the Chesapeake Bay Watershed](#)

**November 19, 2021**

[Advancing Monitoring Approaches to Enhance Tidal Chesapeake Bay Habitat Assessment including Water Quality Standards for Bay Water Clarity/SAV Criteria](#)

**December 9, 2021**

[Rising Watershed and Bay Water Temperatures: Ecological Implications and Management Responses](#)

**Day 1: January 12, 2022**

## Recently Released STAC Reports

- [Chesapeake Bay Program Climate Change Modeling 2.0 \(FY2018\)](#)
- [Linking In-Field and Edge-of-Field Water Management to Soil and Watershed Health \(FY2019\)](#)
- [Incorporating Freshwater Mussels in the Chesapeake Bay Program Partnership \(FY2019\)](#)



If you missed the FY20 STAC Workshop on assessing the water quality, habitat, and social benefits of [Green Riprap](#), you can learn more about this restoration technique in the video above. Steering Committee members explain Green Riprap and discuss completed USFWS Green Riprap projects.

## [December Quarterly Meeting](#)

STAC will convene virtually on **December 7-8, 2021** for the final quarterly meeting this year. An agenda and other information can be found on [the meeting webpage](#). This meeting will include updates on STAC membership vacancies, discussion on the ongoing Comprehensive Evaluation of System Response effort, and report outs from recent STAC workshops. Register below to receive Zoom meeting information for both days. This meeting is open to the public but we ask you register first.

[Register for December Meeting](#)

## Member Spotlights

**Chanceé Lundy**, Co-owner and Principal of [Nspiregreen](#), STAC Executive Board Member

Chanceé is a community-conscious engineer. This Selma, Alabama





native uses her passion for eradicating inequities as fuel to provide technical competence and adept communication on environmental and transportation projects. Lundy is an involved member of the STAC Executive Board, providing leadership and guidance in STAC's efforts to bring science to management and policy makers.



**Lara Fowler**, Penn State University,  
STAC Executive Board Member

Lara Fowler is an attorney and mediator who focuses on environmental, energy, and natural resource law, with a concentration on water related issues. She has a joint appointment between Penn State Law and the [Penn State Institutes of Energy and the Environment](#) where she is working on questions related to water, the Chesapeake Bay, and energy. Within STAC, Fowler has led multiple workshops, participates in the Executive Board, and facilitates panels and discussion sessions for meetings and workshops.



**Mike Runge**, USGS,  
STAC Federal Member

Mike Runge is a Decision Analyst & Research Ecologist for the US Geological Survey at Patuxent Wildlife Research Center. Runge focuses on the use of decision theory and population modeling to inform natural resource management, primarily in collaboration with Federal management agencies. He has worked on projects with migratory birds, National Wildlife Refuges, endangered species, and marine mammals. Runge assists in leading STAC in their Comprehensive Evaluation of System Response.

## Committee Leadership Changes

In September 2021 **we thanked Andy** for his leadership and welcomed a new STAC Chair and Vice Chair. Kathy and Larry are already beginning to think strategically on STAC's dynamic role over their 2 year terms. Please update your contact lists and say hello to the new STAC leadership team!

**Kathy Boomer, STAC Chair**,  
Science Program Director, Foundation for Food  
and Agriculture Research  
[kboomer@foundationfar.org](mailto:kboomer@foundationfar.org)





Kathy Boomer is a Science Program Director at [FFAR](#) where she is responsible for developing programs in sustainable water management. Boomer has extensive experience in landscape modeling and watershed research and a passion for advancing science-based decision-making in resource management. Boomer has been a member on STAC since 2013, actively participating as an Executive Board member and Chair of multiple STAC workshops.

**Larry Sanford, STAC Vice Chair,**  
Professor, UMCES Horn Point  
[lsanford@umces.edu](mailto:lsanford@umces.edu)

Larry Sanford serves as Interim Vice President for Education at [UMCES](#) and is also a Professor at UMCES Horn Point Laboratory. He maintains an active research program in fine sediment transport processes, coastal and estuarine physical oceanography, waves, and turbulence, with a special interest in interactions between fluid flow and estuarine ecology. Sanford has been on STAC since 2018 and will rotate on as Chair in 2023.



## Newly Published Research by STAC Members

**"The Chesapeake Bay program modeling system: Overview and recommendations for future development."** Published in [Ecological Modelling](#) by Kathy Boomer, Zach Easton, Tom Ihde, Andy Miller, Greg Noe, and Kenny Rose, among others.

**"Identification of phosphorus index improvements through model comparisons across topographic regions in a small agricultural watershed in Vermont."** Published in [Soil Science Society of America Journal](#) by Amy Collick and Zach Easton and others.

**"Past, present, and future: Status of women and minority faculty in agricultural and applied economics."** Published in [Applied Economic Perspectives and Policy](#) and co-authored by Leah Palm-Forster.

**"Towards attaining green sustainability goals of cities through social transitions: Comparing stakeholders' knowledge and perceptions between two Chesapeake Bay watersheds."** Published in [Sustainable Cities and Society](#) by Adel Shirmohammadi and others, including Sacoby Wilson (UMD).

**"Supply-controlled calcium carbonate dissolution decouples the seasonal dissolved oxygen and pH minima in Chesapeake Bay."** Published in [Limnology and Oceanography](#) by Jeremy Testa.

**"Evaluating optimal removal of derelict blue crab pots in Virginia."** Published in [Ocean & Coastal Management](#) and co-authored by Kirk Havens.

**"Strategic testing approaches for targeted disease monitoring can be used to inform pandemic decision-making."** Published in [PLoS Biology](#) and co-authored by Mike Runge.

**"Time marches on, but do the causal pathways driving instream habitat and biology remain consistent?"** Published in the [Science of the Total Environment](#) and co-authored by Greg Noe.

## Chesapeake Bay Program Meetings

To find information on upcoming meetings for CBP

workgroups, GITs, Action Teams, and more, please visit the [Chesapeake Bay Program Calendar of Events](#). A selection of upcoming meetings in November and December 2021 is highlighted below.

Thursday and Friday, **November 4-5th:**

- [Chesapeake Bay Commission Meeting](#)

Monday, **November 15th:**

- [Climate Resiliency Workgroup](#)

Tuesday, **November 16th:**

- [Conowingo WIP Steering Committee Meeting](#)

Friday, **November 19th:**

- [Principals' Staff Committee Meeting](#)

Thursday, **November 18th:**

- [Management Board Quarterly Progress Meeting](#)

Wednesday, **December 1st:**

- [Citizens Advisory Committee Quarterly Meeting](#)

Thursday and Friday, **December 2nd-3rd:**

- [Local Government Advisory Committee](#)

## November 2021

S	M	T	W	T	F	S
31	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30	1	2	3	4
5	6	7	8	9	10	11

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## Upcoming Events and Webinars



### Chesapeake Watershed Forum

*Virtual - November 1-5*

Register for the 2021 Forum [here](#).



### PA Statewide Conference for Watershed Organizations

*State College, PA - November 7-8*

Sign-up [here](#).



### 16th Annual River Symposium

*Virtual - November 5-6*

[Learn more](#) about the virtual symposium.